

Claims

1. A flame retardant polymer composition comprising
 - (A) an olefin homo- and/or copolymer in an amount of from 30 to 70 wt.-% of the total polymer composition,
 - (B) a silicone-group containing compound,
 - (C) an inorganic filler in an amount of at least 10 wt% of the total polymer composition,wherein component (C) has a particle size distribution so that at least 10 wt% of the total polymer composition are particles with a size of below 0.7 micrometers.
2. Composition according to claim 1 wherein component (C) has a particle size distribution so that at least 10 wt% of the total polymer composition are particles with a size of 0.65 micrometer or less.
3. Composition according to any of the preceding claims wherein component (C) has a particle size distribution so that at least 10 wt% of the total polymer composition are particles with a size of below 0.5 micrometer.
4. Composition according to any of the preceding claims wherein the total amount of inorganic filler (C) is from 30 to 55 wt% of the total polymer composition.
5. Composition according to any of the preceding claims, wherein inorganic filler (C) is neither a hydroxide nor a hydrated compound.

6. Composition according to any of the preceding claims wherein inorganic filler (C) comprises a carbonate, oxide and/or sulphate of an element of groups 1 to 13 of the Periodic System of the Elements.
7. Composition according to any of the preceding claims wherein component (C) comprises an inorganic compound having particles with an aspect ratio of below 5.
8. Composition according to any of the preceding claims wherein polymer (A) comprises a polar olefin copolymer.
9. Composition according to claim 8 wherein polymer (A) comprises an copolymer of an olefin with an acrylic comonomer.
10. Composition according to any of the preceding claims wherein silicone-group containing compound (B) is a silicone fluid and/or gum, and/or an olefin copolymer comprising a silicone-group containing comonomer.
11. Composition according to any of the preceding claims wherein the amount of silicone-groups in the total composition is from 1 to 20 % by weight of the total composition.
12. Use of a composition according to any of the preceding claims in a conduit, plug, wire or cable or for injection moulding, preferably in a wire or cable.
13. A wire or cable having a layer comprising a composition according to any of claims 1 to 11.